

Notice of Allowability

Application No.

10/603,275

Applicant(s)

ZACCHEO, LUCA

Examiner

Temesghen Ghebretinsae

Art Unit

2637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 9/2/05.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: the prior art of record fail to anticipate or render obvious the claimed method for the acquisition of burst synchronization signals in a spread spectrum communication system, comprising the following steps:

1) Receiving a burst synchronization signal,

2) Applying to said received burst synchronization signal a dwelling procedure according to a scheduling scheme, whereby said dwelling procedure comprises the steps of calculating a matched filter output, summing said outputs over one slot time, calculating the energy in said sum, searching the maximum energy value and passing it to a Random Access Memory,

3) Based on said scheduling scheme containing a set of $X=(N+1)/2$ hypotheses, being numbered $0, 1, \dots, X-1$ and N being the number of slots in 1 frame, the slots being numbered $0, 1, \dots, N-1$, a dwelling procedure being performed in hypothesis $n=0, \dots, X-2$ in slots $n, n+N-D$ and $n+D$ and in hypothesis $n=X-1$ in slots n and $n+D$, D being the longest distance in slots between two sync slots,

4) At the end of the scheduling scheme searching for the overall maximum energy value among the energy values stored in said Random Access Memory, whereby said scheduling scheme is built up by (a) choosing any hypothesis from said set of hypotheses, (b) performing a dwelling procedure in the frame slots as indicated in the chosen hypothesis, (c) leaving one slot open after the last dwelling procedure for said chosen hypothesis, (d) choosing an hypothesis not used yet, having in the next

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available slot a dwelling procedure in that slot and not in the subsequent slot or having in the next available slot a dwelling procedure in that slot as well as in the subsequent, (e) performing a dwelling procedure in the frame slots as indicated in the chosen hypothesis, (f) leaving one slot open after the last dwelling procedure for said hypothesis, (g) repeating (d-f) until all hypotheses have been used, whereby in case there is no unused hypothesis that matches, the slot is left empty and the following slot is used.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Drawings

2. The drawings were received on 9/2/05. These drawings are acceptable.

T.G

10/14/05

TEMESGHEN GHEBREHINSAE
PRIMARY EXAMINER

10/15/05